

Word or number (easiest 2)

We use alphabetic characters from the Romans for words, and numerals from the Arabs for numbers. Can you write a program to tell the difference?

Input

Input will be a sequence of either alphabetic characters, or a sequence of numeric characters (no decimals).

Output

Output "word" (no quotes) if the characters are alphabetic. Output "number" (no quotes) if the characters are numeric. All character will be one or the other.

Example

Input:

ACM

Output:

word

Input:

012

Output:

number